

Aston A. Henry, Supervisor **Risk Management Department**

managing risk with responsibility

Telephone: 754 321-1900 Fax: 754 321-1917

December 17, 2009		Signature on File	For Custodial Supervisor Use Only		
TO:		on Johnson, Principal E ly High School	Custodial Issues Addressed		
FROM:		See, Project Manager nagement Department			
SUBJECT:		ir Quality (IAQ) Assessment), 510, 510A and 511			

On November 20, 2009, I conducted an assessment of FISH 340, 510, 510A and 511 at Blanche Ely High School. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. Additionally, environmental parameter measurements were taken to include temperature, relative humidity, and carbon dioxide. The detailed findings, along with the recommended corrective action can be found on the attached IAQ Assessment Worksheets.

The IAQ assessment did identify one or more existing conditions impacting IAQ and has generated appropriate work orders to correct deficiencies in systems and maintenance that could contribute to decreased indoor air quality. At the time of the assessment, these concerns were not an immediate health or safety concern to building occupants. However, due to individual sensitivities and predisposing health factors, it is possible that some building occupants may elicit a health response to agents and / or conditions identified during the evaluation. Therefore, to further improve IAQ, prevent development of future IAQ-related problems, and to reduce the potential for IAQ-related complaints by building occupants, the IAQ Assessment Team recommends appropriate follow up of each item identified and listed in the attached evaluation.

Please ensure that your Head Facilities Serviceperson receives a copy of this correspondence so that the recommendations requiring their attention can be addressed. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all issues have been appropriately addressed.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-1900.

cc:	Sharon Airaghi, Area Superintendent
	Jackie Haywood, Area Director
	Jeffrey S. Moquin, Executive Director, Support Operations
	Aston Henry, Supervisor, Risk Management
	Robert Bellot, Project Manager, Facilities and Construction Management
	Lynn Cavall, Broward Teachers Union
	Roy Jarrett, Federation of Public Employees
	Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
	Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division
	Robert Krickovich, Coordinator, LEA, Facilities and Construction Management
ES/tc	
Enc.	

			IAQ Ass	essment	Location Number	0361
	E	Blanche Ely High	School		Evaluation Requested	November 12, 2009
Time of Day	8:30 am				Evaluation Date	November 20, 2009
Outdoor Condi	tions Ten	nperature 7	7.1 F	Relative Humidity	79.2 Ambie	ent CO2 398
Fish	Temperature	Range Relat	ive Humidity	Range	CO2 Ra	nge # Occupants
340	72.3	/2 - 78	59.1 3	30% - 60%	700 Max 700	> Ambient 4
Noticeable Od	or No	-	isible water age / staining?	Visible micro growth?	bial Amount o material affe	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywal		No	No		None
Flooring	Carpet		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action R	equired
Ceiling	Yes	No	No			
Walls	No	Yes	Yes		Clean as appropr	iate
Flooring	Yes	No	No			
HVAC Supply	Grills No	Yes	Yes	C	lean with Wexcide dis	sinfectant
HVAC Return	Grills No	Yes	Yes	C	lean with Wexcide dis	sinfectant
Ceiling at Sup Grills	ply No	Yes	Yes		Clean as appropr	iate
Surfaces in Ro	oom No	Yes	Yes		Clean as appropr	iate

Findings:

- Dust and debris on HVAC supply and return grills and on ceiling at supply grills
- Dust and dirt build up on walls
- Dust build up on environmental surfaces
- HVAC supply grill not screwed in properly
- Two soffits in outside hallway are missing mesh screening
- FISH 341A (air handler room) filters not taped together and chemicals stored in room
- FISH 341A (air handler room) dust and debris on coils and standing water in drain pan

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution and clean ceiling at supply grills

- Wipe down walls to remove dust and dirt
- Thoroughly clean environmental surfaces
- Secure HVAC supply grills
- Contact COMPASS to generate a work order to install mesh screening in outside hallway
- Ensure that A/C filters in FISH 341A are taped together properly to not allow any bypass of air
- Remove chemicals from FISH 341A

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations:

- Clean coils and service AHU

			IAQ Ass	sessment	Location Number	0361
	E	Blanche Ely High	n School		Evaluation Requested	November 12, 2009
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Outdoor Condit	tions Ten	nperature 7	7.1	Relative Humidity	79.2 Ambie	ent CO2 398
Fish T	emperature	Range Relat	ive Humidity	Range	CO2 Rai	nge # Occupants
510	71.5	2 - 78	57.2	30% - 60%	935 Max 700	> Ambient 19
Noticeable Od	or Yes	-	/isible water age / staining'	Visible microl ? growth?	bial Amount o material affe	
Ceiling Type	2 x 2 Lay	In	No	Yes		Various
Wall Type	Drywal		Yes	No	@ 2 fee	et - South wall
Flooring	12 x 12 Vi	nyl	Yes	No		Various
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action R	equired
Ceiling	No	Yes	Yes	Re	emove and replace ce	iling tiles
Walls	No	Yes	Yes		Evaluate and rep	air
Flooring	No	Yes	Yes		Clean and saniti	ze
HVAC Supply	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
HVAC Return (Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	om No	Yes	Yes		Clean as appropr	iate

Findings:

- Dust and debris on HVAC supply and return grills
- Dust build up on environmental surfaces
- Various stained ceiling tiles
- Dust, debris and stains on floor and carpeted area
- Visible staining and water damage on South wall @ 2 feet

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution

- Thoroughly clean environmental surfaces throughout the room

- Remove and replace stained ceiling tiles. If staining returns contact COMPASS to generate a work order for Physical Plant Operations to evaluate for cause.

- Thoroughly clean and sanitize flooring

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations:

- Evaluate cause of staining and water damage on South wall and repair as appropriate. Repair/replace wall material as necessary.

			IAQ Ass	essment	Location Number	0361
	E	Blanche Ely Higl	n School		Evaluation Requested	November 12, 2009
Time of Day	8:30 am]			Evaluation Date	November 20, 2009
Outdoor Condi	itions Ter	nperature 7	7.1	Relative Humidity	79.2 Ambie	ent CO2 398
Fish	Temperature	Range Relat	ive Humidity	Range	CO2 Rar	nge # Occupants
510A	73.7	72 - 78	51.6	30% - 60%	852 Max 700	> Ambient 2
Noticeable Od	lor Yes		/isible water age / staining?	Visible micro growth?	bial Amount o material affeo	
Ceiling Type	2 x 2 Lay	In	No	Yes		Various
Wall Type	Drywal	l	Yes	No	Se	outh wall
Flooring	Carpet		Yes	No		Various
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	No	Yes	Yes	Re	move and replace ce	iling tiles
Walls	No	Yes	Yes		Evaluate and rep	air
Flooring	No	Yes	Yes		Clean and saniti	ze
HVAC Supply	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
HVAC Return	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	iate

Findings:

- Dust and debris on HVAC supply and return grills
- Excessive clutter in room
- Various stained and broken ceiling tiles
- Dust, dirt and staining on floor
- Bubbling paint on South wall at window

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution
- Reduce clutter in room by removing unnecessary items
- Remove and replace stained and broken ceiling tiles. If staining returns contact COMPASS to generate a work order for
- Physical Plant Operations to evaluate for cause.
- Thoroughly clean and sanitize flooring
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations:

- Evaluate cause of bubbling paint on South wall at window and repair as appropriate. Repair/replace wall material as necessary.

			IAQ Ass	sessment	Location Number	0361
	В	lanche Ely High	n School		Evaluation Requested	November 12, 2009
Time of Day	8:30 am				Evaluation Date	November 20, 2009
Outdoor Condi	tions Terr	perature 7	7.1	Relative Humidity	79.2 Ambie	ent CO2 398
Fish T	Temperature	Range Relat	ive Humidity	Range	CO2 Rar	nge # Occupants
511	73.3 7	2 - 78	55.7	30% - 60%	840 Max 700	> Ambient 4
Noticeable Od	or Yes		/isible water age / staining?	Visible micro ? growth?	bial Amount o material affec	
Ceiling Type	Drywall		No	No		None
Wall Type	Drywall		No	No		None
Flooring	12 x 12 Vii	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
HVAC Return	Grills Yes	No	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Findings:

- Dust and debris on HVAC supply grills
- Floor drain was dry
- Dust build up on environmental surfaces

- FISH 511A (air handler room) - Excessive clutter in room (paints, boxes, custodial supplies) and soiled clothes with a musty odor

- FISH 511A (air handler room) - dust and debris on A/C filters

Site Based Maintenance:

- Clean HVAC supply grills with Wexcide disinfectant solution
- Ensure that water is poured down drains at least once a week
- Thoroughly clean environmental surfaces throughout the room
- Remove items from FISH 511A (paints, boxes, custodial supplies, soiled clothes, etc.)
- Remove and replace A/C filters in FISH 511A

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate